

Here's how simple Unit Cabling can be - using Alden "IMI" Connectors

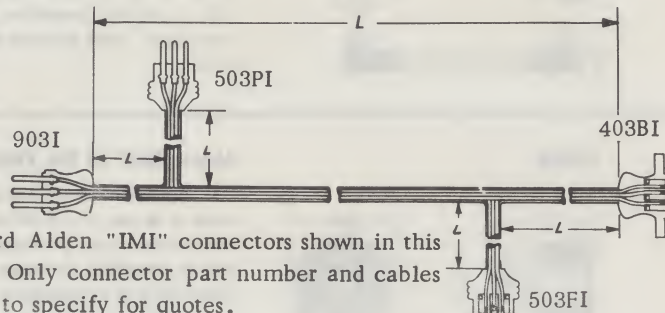
You can quickly have individual "IMI" Connectors made up into complete unit cables ready to use on your equipment.

- First, determine number of plugs and sockets and number of contacts.
- Second, select individual connectors shown in this Handbook Supplement.
- Third, determine distance from point shown as "L" on each plug or socket.
- Fourth, show color coding of leads and connections -- schematically.

NOTE: If certain leads have no connections, show emergence point, distance, and if to be stripped and tinned, state how much.

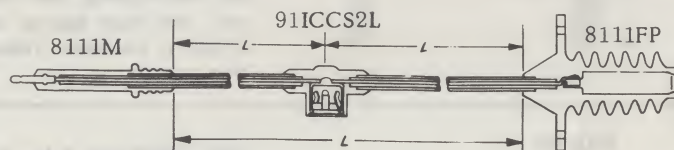
TYPICAL EXAMPLES of Alden Unit Cables -- to use as a guide in ordering yours.

This Alden "IMI" Unit Cable for inter-chassis connection on a mobile communication equipment has eliminated connector field problems. Uses standard Alden "IMI" connectors shown in this Handbook Supplement. Only connector part number and cables dimensions are required to specify for quotes.



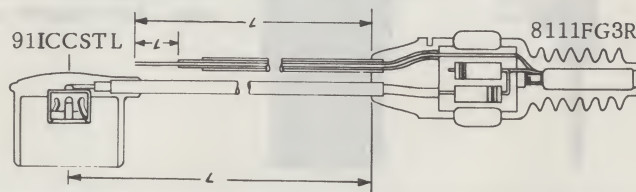
Hi-voltage cabling and connecting in electronic circuits is tremendously simplified by Alden "IMI"

Hi-voltage connector cables units as shown here. To specify such cables, select Alden "IMI" tube cap and Alden "IMI" high-voltage disconnects from Alden Handbook and provide lead lengths.



RCA Color TV high voltage connector cable. This Alden "IMI" Unit Cable supplies 27 KV power for 21" Color TV set. Has integral resistors in the

female disconnect for current surge suppression--integral corona suppressing shell and insulating skirt on tube cap to prevent flashover--Supplied from standard Alden "IMI" connectors shown in Alden Handbook, Plugs and Connectors Section, Page 3C and Tube Cap Section, Page 5 to 14.



for: **Reliability**
Simplicity

... **All**
Industry
Specifies

ALDEN UNIT-MOLDED CABLES

with:

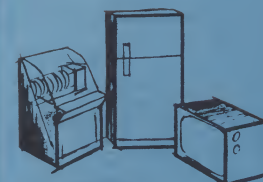
BUILT-IN STRAIN RELIEF
MOISTURE & CONTAMINANT SEAL
SHOCK & VIBRATION RESISTANCE
TAMPER PROOF CONSTRUCTION

Alden Connectors integrally molded into one piece cables ... provide trouble-free operation ... eliminate potting and tedious assembly by customer.

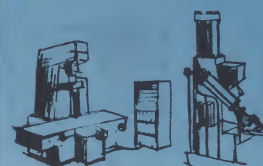
We have developed the techniques to mold resilient "punch press contacts" in any type of molded insulation -- for any combination of connectors and contact layouts.

Alden's unique operation, flexibility and high speed molding presses which dovetail into production lines means complete cables in any length -- any layout -- from raw material to finished product in one day.

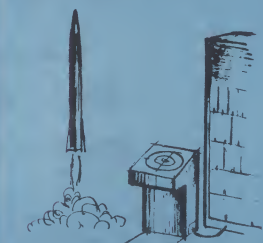
It's easy to lay out your own unit molded cable using layout techniques illustrated on back page and any combination of standard Alden connectors on following pages.



COMMERCIAL



INDUSTRIAL



GOVERNMENT

SEND INQUIRIES AND QUOTATION REQUEST TO DEPT. "IMI" 3-58

ALDEN PRODUCTS COMPANY

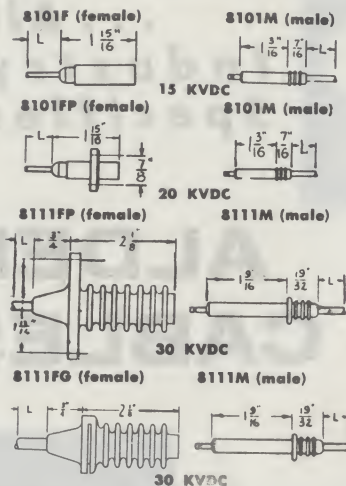
117 North Main Street • Brockton 64 • Massachusetts

ALDEN PRODUCTS COMPANY
BROCKTON 64, MASSACHUSETTS

ALDEN "IMI" (integral molded insulation) CONNECTORS

ALDEN HANDBOOK SUPPLEMENT

SINGLE LEAD ALDEN "IMI" CONNECTORS

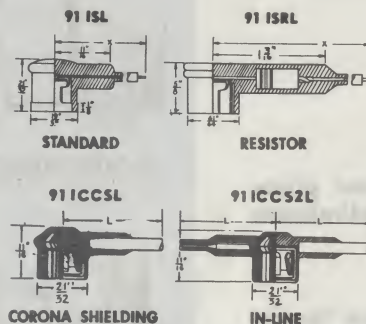


Alden "IMI" Hi-Voltage Disconnects

Now you can lick hi-voltage connecting problems in electronic applications. Alden "IMI" technique using low-loss polyethylene insulation bonds the conductor and contact insulations, effectively sealing the wire hole and forming a barrier to dust, moisture, and flash-over. This method eliminates potting, making possible more compact assemblies with less weight.

For complete specs and other types, see the Alden Handbook, Plugs and Connectors Section, Pages 3A-3D. Order by part numbers at left. Standard lead is APW8004-22, #22 AWG stranded, .060" polyethylene wall, 18" long, free end dipped 3/8" or tailored to your specs.

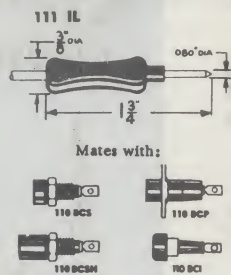
For high voltage Alden "IMI" Connector Cables, see back page.



Alden "IMI" Tube Cap Connectors

These are a series of new Alden "IMI" Tube Cap Connectors for 1/4", 3/8", and 9/16" plate caps. Because Alden "IMI" technique provides sealed construction, these connectors are ideal for rectifier, pulse, output, and transmitter tubes operating at high voltages or at high altitudes. Available in a variety of insulation types to meet all types of operating conditions.

Can meet unusual circuit requirements by having integrally molded corona shields, resistors, chokes and condensers. Standard types are production tooled, and we'll be glad to work with you on specials. For complete specs and ordering information see the Alden Handbook, Tube Cap Connector Section.



Alden Mini Test Point Jack and Test Prods

Here's the latest in insulated test prods and jumper pairs. Using the Alden "IMI" technique, prod tip and lead are integrally molded in a shot of low loss polyethylene. Superior to phenolic insulated test prods, they won't break, crack or chip. They're ideal for instruments, meters, patch boards, program panels, and make nice little single contact quick disconnects for numerous uses. For volume requirements, they can be color coded to match the 7 brilliant colors available on Alden Mini-Test Jacks.

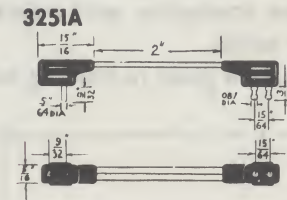
Standard lead is APW4136 (#20 AWG stranded, 1/32" rubber wall) 18" long, or wire to your specs. For single ended test prod, order #111 IL (black) or #111 IRL (red). For double ended, order #111 IL-2 (black) or #111 IRL-2 (red). Use with Alden Mini-Test Jacks (110BCS series -- see Alden Handbook, Test Equipment Section) or any tip jack.

See Back Page for laying out in unit cable combinations.

FOR MORE COMPLETE CONNECTOR INFORMATION, SEE ALDEN HANDBOOK. 1-57

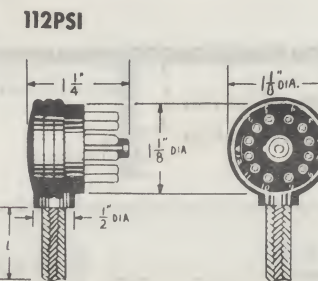
CUSTOM LEAD ALDEN "IMI" CONNECTORS

Here are custom Alden "IMI" Cable Connectors designed to mate with standard sockets. Although our standard "IMI" connectors shown on the preceding pages meet most requirements, we'll be glad to work with you on special orders where volume is sufficient for production tooling.



Alden "IMI" Synchro Camera Flash Cable

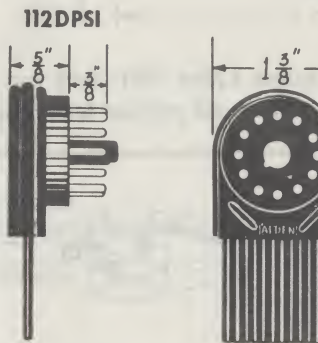
Precision designed and precision molded cable for synchronizing flash gun to camera. Reliable Alden "IMI" design assures positive results with every flash, and rugged construction makes this a lifetime connector. Quality polyvinyl insulation used throughout. Send detailed description of drawing of your application.



Alden "IMI" 12 Pin Piloting Plug

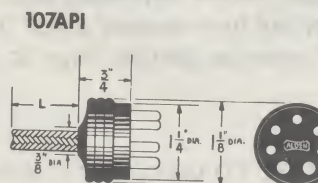
This space-saving Alden "IMI" 12-pin connector can be used alone or as part of a multi-connector unit cable assembly. Keyed boss provides easy piloting. Simple construction eliminates intricate assembly, yet assures perfect reliability. Handles up to 12 leads tailored to your specs.

Tenite insulation is standard for lowest cost; other types available. Standard leads for lowest cost are APW906-22, (#22 AWG stranded, 1/64" vinyl wall) 18" long, free end dipped 3/8", with single layer of cotton overbraid overall, or leads tailored to your specs. Order by part number for standard or give specs.



Alden "IMI" Flat Cable Plug

Compact 12-pin right angle plug uses popular flat lead. Fits 12 contact (octal type) socket. Standard plug insulation is maroon tenite; others available. Standard lead for lowest cost is APW112DPSI, flat cable, 12-conductor (#22 AWG stranded, 1/32" vinyl wall) 18" long from center of plug, or wire to your specs. Your monogram can be molded on.



Alden "IMI" Std. 7 Pin Plug

Standard small 7-pin Alden "IMI" plug fits standard small 7-pin tube socket or connector. Tenite insulation is standard for lowest cost; other types available. Provides 100% insulation of contacts, seals wire entrance, and resists breakage.

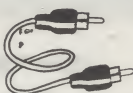
For lowest cost, standard leads are APW906-22 (#22 AWG stranded, 1/64" vinyl wall) 18" long, free end dipped 3/8", with single layer of cotton overbraid overall, or leads tailored to your specs. Order by part number for standard or give specs.

811 PI



single ended connector or #811PI-2 for double ended. Specify overall length and wire type.

Alden "IMI" Shielded Plug



New Shielded Audio Input or Output Connector available single or double ended. Alden "IMI" technique provides an integral molded insulating jacket that grips the connector shell and lead to seal off the wire hole and provide a dressy termination.

Standard lead is RG 58/U or to your specs. Order #811PI for

2 TO 3 LEAD ALDEN "IMI" CONNECTORS

902PTI



202FTI



Alden "IMI" Sub-miniature Connectors

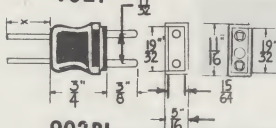
Here's a tiny connector for low voltage applications where space is a premium. Has polyethylene insulation. Leads are miniature twin-lead, #30 solid conductors, 18" long or length to your specs.

902PI *



*Mates with either 402I or 402BI shown below.

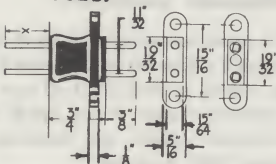
902I



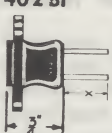
402I



902BI



402BI

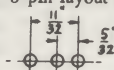


Alden "IMI" Miniature Connectors

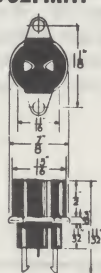
Designed originally as 300 ohm transmission line connectors, these compact, unbreakable two and three (polarized) lead Alden "IMI" connectors are useful in many types of low voltage applications. Available in low-loss polyethylene (standard) or polyvinyl insulation.

For lowest cost standard leads are *APW907-22 (#22 AWG stranded, 1/32" vinyl wall) 18" long, free end dipped 3/8", or leads to your specs. Order standard by part numbers shown at left. To order either plug or socket with 3 leads, replace "2" in part number with "3". For connectors with leads tailored to your specs, order by part numbers and give wire specs. For phenolic types see Alden Handbook, Miniature Plugs and Connectors Section, Pages 5A-5B. *#902PI has APW902-28EF, #28 AWG with .012 vinyl wall.

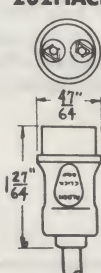
NOTE: 3-pin layout for: 903I (Male) 403I (Female)
903BI (Male) 403BI (Female)



902PMTH



202FIACF



Alden "IMI" Power Disconnects

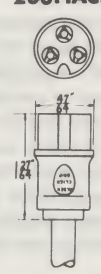
Solve your AC/DC power input or extension problems with this new two-wire Alden "IMI" Detachable Power Disconnect. Compact design eliminates bulk, saves space, yet each resilient punch-press contact is completely insulated with wear resistant polyvinyl.

Cordage is type SV for long life and attractive appearance. Standard color is gray; also available in black. For cordage tailored to your specs, order #202FIACF and specify overall length, color, and preparation of free end. Mates with chassis mounting plug #902PMTH with solder tabs, or #902PMTHL with leads. UL listed 7 amps/125 V.

903PMTH



203FIACF



Alden "IMI" Grounding Power Disconnects

Eliminate shock hazard in your equipment with a new Alden "IMI" Grounding Power Disconnect for power input or extension. Female contacts are "top connected" for positive strain relief, and each sits in a protective pocket of polyvinyl insulation for maximum protection against mechanical or electrical failure.

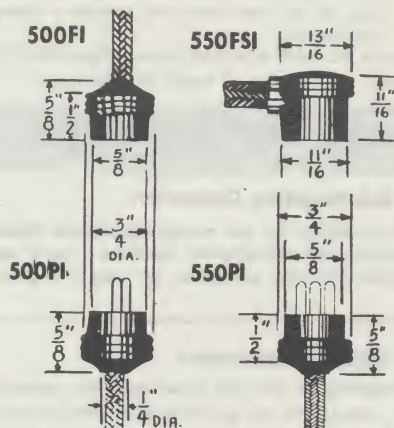
Cordage is type SJ 3-wire for long life and neat appearance. Standard color is gray. For cordage tailored to your specs, order #203FIACF and specify overall length and preparation of free end. Mates with Alden chassis mounting plug #903PMTH with solder tabs or #903PMTHL with leads.

2 TO 4 LEAD ALDEN "IMI" CONNECTORS

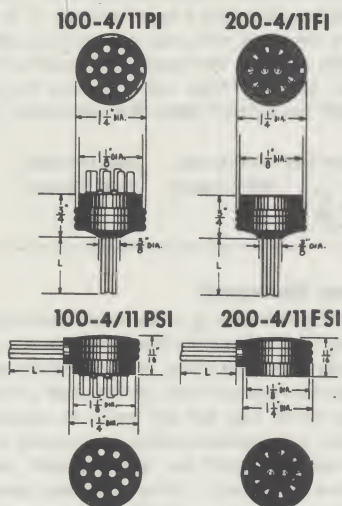
Alden "IMI" Miniature Disconnects

Here's a series of compact, polarized Alden "IMI" miniature disconnects with 2 to 4 contacts. For the first time in so little space you get a connector with all the advantages of potting without added bulk, lengthy curing time, and intricate assembly. They can be used as individual disconnects or made into complete unit cabling assemblies...all tailored to your specs and production requirements. For a choice of layouts, see sketches below.

Tenite insulation is standard; also available in polyethylene, polyvinyl, or nylon. Standard leads are APW906-22 (#22 AWG stranded, 1/64" vinyl wall) 18" long, free end dipped 3/8" or leads to your specs. Leads are twisted, taped and lacquered cotton over-braid. Order by part numbers shown at left and layout shown below. Specify whether standard lead or give specs. For phenolic types see Alden Handbook, Miniature Plugs and Connectors Section, Pages 1A-1B.



4 TO 11 LEAD ALDEN "IMI" CONNECTORS

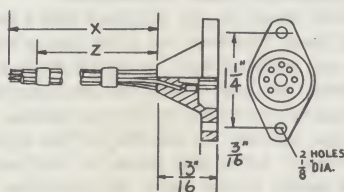


Alden "IMI" Non-Interchangeable Connectors

Replace your potted AN connectors with this series of rugged Alden "IMI" non-interchangeable connectors having from 2 to 11 contacts. Keyed bosses that usually crack or break off have been eliminated. Polarization is effected by short, stubby pins in non-interchangeable pattern. Contacts, inserts, and conductors are completely sealed by the Alden "IMI" technique.

Standard insulation is polyethylene; other types available. For lowest cost, standard leads are APW906-22, (#22 AWG stranded, 1/64" vinyl wall) 18" long, free end dipped 3/8", or leadtailored to your specs. For variable pin patterns and phenolic insulated types, see Alden Handbook, Plugs and Connectors Section, Pages 1A-1C. Order by part numbers shown at left. Indicate pin pattern, and lead specs.

907PIC



Alden "IMI" Miniature 7 Pin Chassis Mount Plug

Here's a polyethylene insulated miniature, pre-wired connector designed to mate with Alden 207MNC miniature 7-pin connector. Features Alden "IMI" construction for compactness, ruggedness, and reliability. Comes to you with standard leads or leads to your specs ready to drop into your assembly.

For lowest cost standard leads are APW906-22 (#22 AWG stranded, 1/64" vinyl wall) 18" long, free end dipped 3/8" or tailored to your specs. Order by part number #907PIC and give wire specs. See Alden Handbook, Miniature Plugs and Sockets Section, Page 3B/MPS for #207M1NC.